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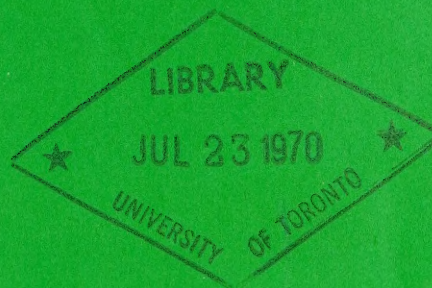


ONTARIO

Government
Publications

PULP AND PAPER MILLS

CENSUS OF MANUFACTURES 1967



ONTARIO STATISTICAL CENTRE
ECONOMIC AND STATISTICAL SERVICES DIVISION
DEPARTMENT OF TREASURY AND ECONOMICS

Hon. Charles S. MacNaughton,
Treasurer of Ontario and Minister of Economics

H. Ian Macdonald,
Deputy Minister



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PULP AND PAPER MILLS

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SYMBOLS

- * Confidential
- S Suppressed to protect confidential items
- Nil or Zero
- Amount too small to be expressed
- .. Figures not available
- ... Figures not appropriate or not applicable
- () Figures within brackets are negative

NOTES

1. Figures may not add to the total because of rounding.
2. To ensure confidentiality, confidential items are either combined with other items or suppressed.
3. If an item is combined with other items, this is indicated by brackets or by footnotes.
4. Where a confidential item cannot be meaningfully combined with other items, the confidential item is suppressed by placing an asterisk instead of the actual figure, and the confidential item lumped with "All others".

INTRODUCTION

This report is one of a series designed to provide information on industries and products covered in the 1966 and 1967 Census of Manufactures. The collection of manufacturing data by the Ontario Statistical Centre is carried out under a statistical arrangement negotiated with the Dominion Bureau of Statistics in accordance with the provisions of the Federal and Provincial Statistics Acts.

The use of the same questionnaire as the Dominion Bureau of Statistics provides for comparability of national and provincial manufacturing statistics. In a few cases, there may be slight variances between the statistics published by the Ontario Statistical Centre and the Dominion Bureau of Statistics. These are mainly due to different interpretations in editing and may also be the result of estimating outstanding questionnaires. As new information becomes available, the statistics may be revised.

The classification of establishments included in this report is based upon the definitions embodied in the Dominion Bureau of Statistics Standard Industrial Classification. "Concepts and Definitions" notes prepared by the Dominion Bureau of Statistics for the Census of Manufactures are included in this report.

All correspondence concerning this report should be directed to the Ontario Statistical Centre.

The Pulp and Paper Mills Industry includes pulp mills producing chemical and mechanical pulp; and combined pulp and paper mills and paper mills manufacturing newsprint, book and writing paper, kraft paper, paperboard and building and insulation board.

In 1967, the value of shipments of goods of own manufacture in Ontario was \$628 million, an increase of 1 per cent over 1966. Ontario's shipments represented 27 per cent of the total Canadian shipments. Average production employment in manufacturing operations showed a decrease of 1 per cent from 1966. Value added by manufacture amounted to \$296 million, a decrease of 3 per cent from 1966. Value added for total activity also decreased by 3 per cent.

TABLE 1

PRINCIPAL STATISTICS, ONTARIO AND CANADA, 1965 TO 1967

Year	Establishments	Manufacturing Activities						Total Activities			
		Production and related workers		Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value ¹ added	Working owners and partners		Employees	
		Number	Man-hours paid					Number	With- drawals	Number	Salaries and wages
			'000		\$'000				\$'000		\$'000
Ontario 1965	37	17,365	37,778	97,958	249,045	574,647	285,844	-	-	21,038	124,087
1966	36	17,945	39,676	112,029	275,576	622,102	306,340	-	-	21,811	140,783
1967	35	17,830	38,856	116,244	290,568	627,728	296,200	-	-	21,264	144,334
Canada ² 1965	132	58,074	128,006	339,363	924,406	2,104,425	1,033,532	-	-	69,897	423,732
1966	134	60,854	135,053	390,735	1,043,720	2,297,662	1,100,261	-	-	73,501	486,249
1967	136	61,237	134,362	413,537	1,097,505	2,301,044	1,052,085	-	-	73,983	516,724
Ontario/Canada ratio (%) 1967	26	29	29	28	25	26	27	-	-	29	28
											28

¹ "Value Added by Manufacture" is computed from value of shipments plus the net change in inventories of finished goods and goods in process, less cost of materials, fuel and electricity.

² As published by DBS.

TABLE 2

FUEL AND ELECTRICITY USED IN MANUFACTURING ACTIVITY, ONTARIO, 1966 AND 1967

Description	Unit	1966		1967	
		Quantity	Cost	Quantity	Cost
1. Large establishments reporting commodity detail:			\$'000		\$'000
Bituminous coal	Ton	14,761	204	28,414	372
(a) From Canadian mines	"	698,979	7,630	707,199	7,859
(b) Imported	"	25,061	341	45,415	662
Sub-bituminous coal (from Alberta mines only)	"	-	-	-	-
Anthracite coal	"	211,554	961	243,540	1,135
Lignite coal	"	14,490	133	15,503	154
Coke	"	658,718	222	667,430	225
Gasoline	Imp.gal.	57,043,932	4,568	56,561,108	4,623
Fuel oil including kerosene or coal oil	"	2,640	7	-	-
Wood	Cord	-	-	-	-
Gas:					
(a) Liquefied petroleum gases	Imp.gal.	298,863	63	321,756	68
(b) Other manufactured gas	M. Cu.ft.	-	-	3,389	2
(c) Natural gas	"	19,961,973	7,852	21,795,867	8,667
Other fuel		-	37	-	55
Electricity purchased	Kwh.	3,824,796,963	18,904	3,693,189,160	18,957
Steam purchased	Pound	354,919,320	468	378,996,326	524
2. Small establishments not reporting commodity detail:					
Estimate for fuel and electricity		-	-	-	-
3. All establishments:					
TOTAL FUEL AND ELECTRICITY USED		...	41,389	...	43,303

TABLE 3

MATERIALS AND SUPPLIES USED, ONTARIO, 1966 AND 1967

Description	Unit	1966		1967	
		Quantity	Cost	Quantity	Cost
A. MANUFACTURING ACTIVITY			\$'000		\$'000
1. Materials used:					
Pulpwood:					
Spruce and Balsam	cord	234,507,461	85,985	238,252,142	98,769
Jack Pine		71,956,317	23,104	66,241,393	23,116
Hemlock		*	*	*	*
Other softwoods (includes hemlock, tamarack and larch)		1,875,727	3,509	1,952,847	522
Poplar (all species)		25,201,831	6,473	17,970,005	6,085
Other hardwoods (includes birch and maple)		27,522,051	6,371	24,077,963	6,121
TOTAL		361,063,387	125,442	348,494,350	134,613
Wood Residue:					
Pulpchips (soft and hardwood)	cord	42,147,551	10,698	41,832,218	13,558
Other wood residue	"	622,140	133	394,370	106
TOTAL		42,769,691	10,831	42,226,588	13,664
Rags, cotton and flax waste, sweepings and cotton liners	ton	*	*	*	*
Old and waste papers and broke		266,250	10,163	252,509	9,047
Other stock		...	936	...	939
Wood - pulp	air-dry ton	313,642	40,266	306,702	40,372
Paper and paperboard		1,657	315	5,473	1,527

Table 3 - Materials and Supplies Used, Ontario, 1966 and 1967 - continued

Description	Unit	1966		1967	
		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
Chemicals and other supplies:					
Acid Hydrochloric (muriatic)	lb.	601,194	26	830,283	29
Acid Sulphuric (as 100%)	ton	31,043	810	31,165	855
Aluminum sulphate (alum) (dry weight)	"	40,305	2,004	40,391	2,079
Ammonia anhydrous		*2	*2	*2	*2
Asphalt		*3	*3	*3	*3
Bleach, other		*3	*3	*3	*3
Calcium carbonate (whiting and chalk)		*3	*3	*3	*3
Chlorine (liquid)	"	58,863	4,111	65,548	4,540
Clay, china (kaolin)	"	41,777	1,349	39,631	1,401
Clay, others	"	33,346	1,186	24,874	1,243
Diatomaceous earth (Dicalite, Kieselguhr "Celite")	"	368	41	238	39
Dyes and colours		-	1,479	-	1,574
Film transparent, cellulosic		*3	*3	*3	*3
Flour wheat		*3	*3	*3	*3
Flour wood		-	-	-	-
Foam and slime killer (n.e.s.)		-	1,225	-	1,281
Glues and adhesives		-	239	-	358
Glycerine		*3	*3	*3	*3
Gums, natural resins		*3	*3	*3	*3
Hydrogen peroxide		*3	*3	*3	*3
Ink	ton	36,379	37	32,510	40
Kerosene or stove oil	gal.	1,061,421	166	1,376,603	214
Latex	lb.	1,002,357	169	2,098,871	343
Lime	ton	44,649	993	50,282	1,219
Limestone	"	61,346	238	50,010	168

Table 3 - Materials and Supplies Used, Ontario, 1966 and 1967 - continued

Description	Unit	1966		1967	
		Quantity	Cost	Quantity	Cost
Oil (saturating)		* ³	* ³	* ³	* ³
Paints, varnishes and lacquers		...	* ³	...	* ³
Pitch		-	-	-	-
Pyrites		* ³	* ³	* ³	* ³
Resins (n.e.s.)		...	* ³	...	* ³
Rosins (for making size)		...	* ³	...	* ³
Size (purchased ready made) (dry basis)		...	* ³	...	* ³
Sodium aluminate	lb.	13,983,341	2,037	11,761,648	1,764
Sodium carbonate (soda ash)	"	1,883,877	236	1,639,194	182
Sodium chlorate	ton	12,479	2,024	14,008	2,252
Sodium chloride (common salt)	"	55,056	604	54,002	614
Sodium hydroxide (caustic soda)	"	89,603	5,644	106,515	6,614
(100% Na OH) and ammonia anhydrous	lb.	336,438	58	186,325	38
Sodium hydrosulphite	"	5,296,173	85	7,119,511	117
Sodium pyrophosphate	ton	86,091	2,532	83,342	2,511
Sodium silicate (silicate of soda)	"	23,262	4,007	22,775	3,980
Sodium sulphate (salt cake)	"	83,311	2,787	80,102	3,284
Sodium sulphite	"	17,265	459	17,553	595
Starch	lb.	5,120,326	1,098	5,468,718	1,180
Sulphur	"	* ³	* ³	* ³	* ³
Sulphur dioxide	"	* ³	* ³	* ³	* ³
Titanium dioxide	"	* ³	* ³	* ³	* ³
Trisodium phosphate	"	1,909,763	121	1,873,158	138
Urea crystal	"	* ³	* ³	* ³	* ³
Urea formaldehyde, resin	"	* ³	* ³	* ³	* ³
Wax emulsions	"	* ³	* ³	* ³	* ³
Wax paraffin, crude (including slack)	"	* ³	* ³	* ³	* ³

Table 3 - Materials and Supplies Used, Ontario, 1966 and 1967 - continued

Description	Unit	1966		1967	
		Quantity	Cost	Quantity	Cost
Wax paraffin, refined		* ³	* ³	* ³	\$'000
Zinc dust		-	-	-	-
Zinc hydrosulphite		3,044,213	615	4,419,377	883
- Other chemicals and supplies		...	10,655	...	9,674
TOTAL		...	<u>47,035</u>	...	<u>49,209</u>
2. Containers and other packaging materials and supplies used:					
Mill wrapper (including bands and heads)	ton	15,844	2,575	167,993	2,528
Carliner and other wrapper	"	* ⁴	* ⁴	6,872	982
Skids and pallets, non-returnable	No.	95,858	533	82,802	493
Metal caps, ends and flanges -					
Capsules		...	165	...	284
Others		...	4,089	...	3,204
TOTAL		...	<u>7,362</u>	...	<u>7,491</u>
3. Operating, maintenance and repair supplies used (excluding fuel):					
Cylinder wires	sq. ft.	122,333	256	137,937	193
Fourdrinier wires	"	2,656,452	4,422	2,690,749	4,405
Felts, wool	"	471,468	3,049	342,597	2,432
Felts, cotton	1b.	576,893	1,210	477,194	1,151
Felts, asbestos	"	398,559	922	399,774	992
Felts, nylon	"	108,589	628	183,113	1,089

Table 3 – Materials and Supplies Used, Ontario, 1966 and 1967 – continued

Description	Unit	1966		1967	
		Quantity	Cost	Quantity	Cost
Other operating, maintenance and repair supplies		...	\$'000	...	\$'000
TOTAL		...	22,443	...	23,124
		...	32,930	...	33,386
4. Amount paid out to others for work done on materials owned by establishments		...	297	...	318
TOTAL		...	275,576	...	290,567
B. NON-MANUFACTURING ACTIVITY					
1. Purchases of goods for resale in same condition as purchased		...	1,617	...	3,893
2. All other materials and supplies used		...	3,572	...	4,970
TOTAL		...	5,189	...	8,863
C. TOTAL INPUT OF MANUFACTURING AND NON-MANUFACTURING ACTIVITIES		...	280,765	...	299,430

¹Confidential - included in "Other softwoods".

²Included in "Sodium Hydroxide".

³Included in "Other chemicals and supplies".

⁴Confidential - included in "Others".

TABLE 4

SHIPMENTS OF GOODS, ONTARIO, 1966 AND 1967

Description	Unit	1966		1967	
		Quantity	Value \$'000	Quantity	Value \$'000
A. MANUFACTURING ACTIVITY					
1. Products shipped:					
Wood-pulp:	ton	169,925	21,012	175,683	21,993
Sulphite, paper grades	"	118,050	15,344	126,702	16,454
Bleached	"	51,875	5,668	48,981	5,539
Unbleached	"	750,886	105,724	764,274	107,399
Sulphate, paper grades	"	633,810	91,467	654,343	93,814
Bleached sulphate and soda	"	117,076	14,257	109,931	13,585
Semi-bleached and unbleached					
Screenings, chemical and mechanical	"	9,107	235	7,223	157
All other wood-pulp		...	11,590	...	9,673
TOTAL		...	138,560	...	139,222
Basic paper and paperboard:					
Newsprint:					
White, in rolls and sheets	"	1,765,039	224,339	1,730,003	225,533
Coloured, in rolls and sheets	"	80,067	10,340	80,115	10,664
and other newsprint					
Groundwood printing and speciality papers	"	254,247	61,055	252,479	61,851
Fine papers	"	153,108	50,718	154,107	52,503
Wrapping paper	"	85,543	23,211	82,187	22,731
Other paper	"	66,109	15,013	69,592	15,371

Table 4 – Shipments of Goods, Ontario, 1966 and 1967 – continued

Description	Unit	1966		1967	
		Quantity	Value \$'000	Quantity	Value \$'000
Paperboard – Container grades, Liners and corrugating materials	ton	298,981	35,888	319,491	39,342
Boxboard grades: Folding and non-folding board	"	156,056	26,168	148,999	25,606
Other Boards	"	75,653	9,508	68,868	8,932
TOTAL	"	<u>2,934,803</u>	<u>456,240</u>	<u>2,905,841</u>	<u>462,533</u>
Building boards, converted paper products and by-products	Pound	...	29,229	...	28,191
Steam sold		396,354,107	426	404,601,051	408
2. Amount received in payment for work done on materials and products owned by others		...	65	...	78
3. LESS adjustment for value of sales taxes, excise duties and outward transportation charges, which could not be deducted from individual commodity items described above		...	2,420	...	2,704
TOTAL ADJUSTED VALUE OF SHIPMENTS AND WORK DONE		...	<u>622,101</u>	...	<u>627,729</u>

Table 4 - Shipments of Goods, Ontario, 1966 and 1967 - continued

Description	Unit	1966		1967	
		Quantity	Value	Quantity	Value
B. NON-MANUFACTURING ACTIVITY			\$'000		\$'000
1. Value of shipments of goods purchased and sold in same condition as purchased		...	1,937	...	4,210
2. Other revenue		...	7,027	...	8,278
TOTAL		...	<u>8,964</u>	...	<u>12,488</u>
C. TOTAL OUTPUT OF MANUFACTURING AND NON-MANUFACTURING ACTIVITIES		...	<u>631,065</u>	...	<u>640,217</u>

TABLE 5

EMPLOYMENT AND PAYROLL, ONTARIO, 1966 AND 1967

Employees	1966				1967			
	Male	Female	Total	Salaries and wages	Male	Female	Total	Salaries and wages
	Number			\$'000	Number			\$'000
Production and related workers								
Manufacturing	17,662	283	17,945	112,029	17,571	259	17,830	116,244
Others	504	-	504	3,245	361	-	361	2,511
Administrative and office	2,607	694	3,301	25,084	2,338	671	3,009	25,098
Sales and distribution	42	19	61	424	44	20	64	481
TOTAL EMPLOYEES	20,815	996	21,811	140,782	20,314	950	21,264	144,334

TABLE 6

MONTHLY PRODUCTION EMPLOYEES IN MANUFACTURING ACTIVITY, ONTARIO, 1966 AND 1967

Month	1966			1967		
	Male	Female	Total	Male	Female	Total
Establishments reporting monthly detail (large establishments only):	Number					
January	16,874	263	17,137	17,216	268	17,484
February	16,961	266	17,227	17,252	262	17,514
March	17,023	266	17,289	17,195	255	17,450
April	17,312	274	17,586	17,467	243	17,710
May	17,654	289	17,943	17,867	255	18,122
June	18,125	293	18,418	18,271	258	18,529
July	18,678	298	18,976	18,586	265	18,851
August	18,589	297	18,886	18,167	266	18,433
September	18,117	293	18,410	17,587	268	17,855
October	17,691	296	17,987	17,387	266	17,653
November	17,396	269	17,665	17,021	262	17,283
December	17,542	280	17,822	16,830	250	17,080
Averages	17,662	283	17,945	17,571	259	17,830
Small establishments reporting annual averages	-	-	-	-	-	-
AVERAGE FOR ALL ESTABLISHMENTS	17,662	283	17,945	17,571	259	17,830

TABLE 7

CALCULATION OF INPUT, OUTPUT AND VALUE ADDED, ONTARIO, 1966 AND 1967

Description	1966			1967		
	Manufacturing activity	Non manufacturing activity	Total	Manufacturing activity	Non manufacturing activity	Total
\$'000						
OUTPUT						
1 Shipments and other revenue	622,101	8,964	631,065	627,728	12,488	640,216
Inventories - Goods of own manufacture:						
Add closing	2,557	-	2,557	3,004	-	3,004
- Goods in process	11,938	-	11,938	13,833	-	13,833
- Finished goods	2,484	-	2,484	2,728	-	2,728
Deduct opening	10,807	-	10,807	11,766	-	11,766
2 Net inventory change	1,204		1,204	2,343	-	2,343
3 Gross output (1+2)	623,305	8,964	632,269	630,071	12,488	642,559
INPUT						
4 Purchases of goods not of own manufacture	-	1,617	1,617	-	3,893	3,893
Inventories - Goods not of own manufacture:						
Add opening	-	137	137	-	137	137
Deduct closing	-	108	108	-	73	73
5 Cost of goods sold (not of own manufacture)	-	1,646	1,646	-	3,957	3,957
6 Materials, supplies, etc.	275,576	3,573	279,149	290,568	4,970	295,538
7 Fuel and electricity	41,389	-	41,389	43,303	-	43,303
8 Gross input (5+6+7)	316,965	5,219	322,184	333,871	8,927	342,798
9 VALUE ADDED (3-8)	306,340	3,745	310,085	296,200	3,561	299,761

TABLE 8
INVENTORIES, ONTARIO, 1966 AND 1967

Inventories	1966		1967	
	Opening	Closing	Opening	Closing
1 Manufacturing	book value \$'000			
Materials, supplies, etc.	52,476	60,846	62,123	63,193
Goods in process	2,484	2,557	2,728	3,004
Finished goods of own manufacture	10,807	11,938	11,766	13,833
TOTALS	<u>65,767</u>	<u>75,341</u>	<u>76,617</u>	<u>80,030</u>
2 Non-manufacturing				
Products or materials purchased for resale	137	108	137	73
3 TOTAL INVENTORIES	<u>65,904</u>	<u>75,449</u>	<u>76,754</u>	<u>80,103</u>

NOTE: Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

TABLE 9
MAN-HOURS, MANUFACTURING ACTIVITY, ONTARIO, 1966 AND 1967

Man-Hours	1966	1967
	Number	
Total man-hours worked in all manufacturing operations	35,979,476	34,804,863
Total man-hours not worked, but nevertheless paid (e.g. paid vacation, sick leave, statutory holidays, etc)	3,696,726	4,050,989
TOTAL MAN-HOURS PAID	<u>39,676,202</u>	<u>38,855,852</u>

PULP AND PAPER MILLS

LIST OF ESTABLISHMENTS, ONTARIO, 1967

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Establishment	Location
Abitibi Paper Co. Ltd.	Fort William (H.O. Toronto-Dominion Centre, Toronto 1)
Abitibi Paper Co. Ltd.	Iroquois Falls (H.O. Toronto-Dominion Centre, Toronto 1)
Abitibi Paper Co. Ltd.	Port Arthur (H.O. Toronto-Dominion Centre, Toronto 1)
Abitibi Paper Co. Ltd.	Sault Ste Marie (H.O. Toronto-Dominion Centre, Toronto 1)
Abitibi Paper Co. Ltd.	Smooth Rock Falls (H.O. Toronto-Dominion Centre, Toronto 1)
Abitibi Paper Co. Ltd.	Sturgeon Falls (H.O. Toronto-Dominion Centre, Toronto 1)
Abitibi Provincial Paper Ltd.	Port Arthur (H.O. Toronto-Dominion Centre, Toronto 1)
Abitibi Provincial Paper Ltd.	Thorold (H.O. Toronto-Dominion Centre, Toronto 1)
Acme Paper Products Co. Ltd.	388 Carlaw Ave., Toronto 8
American Can of Canada Ltd.	1 International Blvd., Rexdale
Beaver Wood Fibre Co. Ltd., The	Thorold
Brown Forest Industries Ltd.	Espanola
Canadian International Paper Co.	Hawkesbury (H.O. Sun Life Bldg., Montreal 2, P.Q.)
Canadian Johns-Manville Co. Ltd.	P.O. Box 610, North Bay
Continental Can Co. of Canada Ltd.	(H. O. 790 Bay St., Toronto)
Domtar Construction Materials Ltd.	Thorold (H.O. 1 Place Ville-Marie, Montreal 2, P.Q.)
Domtar Fine Papers Ltd., (Howard Smith Division)	Cornwall (H.O. 2300 Sun Life Bldg., Montreal 2, P.Q.)
Domtar Newsprint Ltd.	Red Rock (H.O. 840 Sun Life Bldg., Montreal 2, P.Q.)
Domtar Newsprint Ltd.	Trenton (H.O. 840 Sun Life Bldg., Montreal 2, P.Q.)
Domtar Pulp & Paper Ltd., (Howard Smith Division)	St. Catharines (H.O. 2300 Sun Life Bldg., Montreal 2, P.Q.)
Domtar Pulp and Paper Ltd., (Howard Smith Division)	Toronto (H. O. 2300 Sun Life Bldg., Montreal 2, P.Q.)

LIST OF ESTABLISHMENTS, ONTARIO, 1967

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Establishment	Location
Dryden Paper Co. Ltd.	Duke St., Dryden
Eddy, E. B. Co., The	Booth St., Ottawa (H.O. Eddy St., Hull, P.Q.)
Garden City Paper Mills Co. Ltd.	Turner Crescent, St. Catharines (H.O. Sun Life Bldg., Montreal 2, P.Q.)
Great Lakes Paper Co. Ltd., The	P.O. Box 430, Fort William
Kimberly-Clark Pulp & Paper Co. Ltd.	Terrace Bay (H.O. 2 Carlton St., Toronto 2)
Kimberly-Clark Canada Ltd.	Kapuskasing (H.O. 2 Carlton St., Toronto 2)
Kimberly-Clark Canada Ltd.	Merritton (H.O. 2 Carlton St., Toronto 2)
Miller Bros. Co. (1962) Ltd., The,	Glen Miller (H.O. P.O. Box 821, Trenton)
Ontario-Minnesota Pulp & Paper Co., The	Fort Frances
Ontario-Minnesota Pulp & Paper Co. Ltd., The	Kenora (H.O. Fort Frances)
Ontario Paper Co. Ltd.	Allanburg Rd., Thorold
Sonoco Products Co. of Canada Ltd.	P.O. Box 1025, Brantford
Spruce Falls Power & Paper Co. Ltd.	Kapuskasing (H.O. 2 Carlton St., Toronto 2)
Strathcona Paper Co. Ltd.	R.R. 7, Napanee

CONCEPTS AND DEFINITIONS

ESTABLISHMENT

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. The majority of such establishments are firms but many firms have more than one establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements embodied in the following definition of the "establishment":

"The smallest unit which is a separate operating entity capable of reporting the following principal statistics:

- Materials and supplies used
- Goods purchased for resale as such
- Fuel and power consumed
- Number of employees and salaries and wages
- Man-hours worked and paid
- Inventories
- Shipments or sales."

Each establishment is required to report on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in the activities of the manufacturing industries to which they have been classified. These units do not necessarily represent the total number engaged in the production of a commodity mainly produced in a certain industry. Some commodities are produced as secondary products in other manufacturing and non-manufacturing industries. It should be noted that head offices and auxiliary units which are surveyed separately are not included in the establishment count, (see following notes on head offices and auxiliary units).

HEAD OFFICES AND AUXILIARY UNITS

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Manufactures.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishments within the Census of Manufactures as they do not normally generate operational revenues, but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics (3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:

(a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry (3 or 4 digit) as the establishment;

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the firm, when all establishments are in the same industry (3 or 4 digit). When establishments of such firms are coded (1) to different industries within a major group (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry (3 or 4 digit) level in all cases will be left free of these company-wide data.

EMPLOYEES

(a) Production and related workers - Manufacturing activities

In addition to those engaged in production and assembling activities, production and related workers in manufacturing activities include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen) engaged in similar work to that of the employees they supervise. For those establishments reporting on the "long" form, production and related workers engaged in manufacturing activity are reported as those receiving pay during the last pay period of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. In the case of the establishments reporting on the "short" form, respondents are requested to report average annual figures. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.) Data on man-hours are not collected from establishments reporting on the short form. Man-hours for these establishments are estimated. In reporting overtime hours, respondents are requested to report only hours actually at work.

(b) Production and related workers - Non-manufacturing activities

Such employees include those on manufacturing establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments, some outside piece-workers employed in certain industries, logging employees who are reported as part of a sawmilling establishment and any other production workers who are not engaged in manufacturing-type operations.

(c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers, etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the line supervisor or working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical, etc. It should be noted that prior to 1961 this category also included working owners and partners. Also included in this category are employees located at head offices or auxiliary units separately located from the establishment; these are generally included in the figures for the province in which they are located according to the rules outlined under "Head offices and auxiliary units" above.

(d) Sales and distribution workers

This category includes office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truckdrivers and their helpers, etc. It may also include some sales employees who are reported as part of a manufacturing establishment but are not working at the establishment's location. These are generally broken down by province in cases where more than 15 employees are involved in any one province. The figures exclude persons working on a commission basis who are not considered regular employees of the establishment.

(e) Total employees

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of employees included under categories (b), (c) and (d) are reported in the form of annual averages and represent as closely as possible full time employment; adjustments are made when reported figures indicate the existence of part time or seasonal employment. In all the above categories, figures on employment refer to the calendar year whether or not other establishment statistics can only be reported on a fiscal year other than the calendar year.

WORKING OWNERS OR PARTNERS

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners are defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

SALARIES AND WAGES

Salaries and wages refer to gross earnings of employees before deductions for income tax and employees contributions to social services such as sickness,

accident and unemployment insurance, pensions, etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any other allowance forming part of the worker's earnings. Payments for overtime are included. Figures on salaries and wages refer to the calendar year.

FUEL AND ELECTRICITY

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives, etc.), not to purchases unless the quantities are substantially the same. Any fuel and electricity produced by establishments for internal consumption are not included in the total cost. Values represent laid down cost at the establishment including freight, duty, etc. Although fuel and electricity used is considered part of manufacturing activity it should be noted that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

MATERIALS AND SUPPLIES

(a) Manufacturing activities

Figures represent quantities and laid down cost values, at the establishment, of materials, supplies and purchased components owned and used during the year in manufacturing activities and related processes. These statistics represent only commodity items of physical goods (cost of services or overhead charges such as advertising, insurance, depreciation, etc. are not included) whether purchased from others or received as transfers (in the form of materials, components or semi-processed goods) from other establishments of the reporting company. Included are maintenance and repair supplies not chargeable to fixed assets accounts and any amounts charged by other establishments for work done on materials owned by the reporting establishment. Cost of repairs or maintenance done by outside contractors and cost of returnable containers are not included.

(b) Non-manufacturing activities

1. Purchases for re-sale as such

Figures represent cost of materials or products purchased from others by the reporting establishment (or received as transfers from other establishments of the reporting company) for re-sale as such in the same condition as purchased. Included are any finished products received on consignment from other countries.

2. Other materials and supplies used

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

SHIPMENTS

(a) General

The figures represent revenue from all production, sales, services and related activities of reporting establishments with shipments valued in Canadian dollars at the point at which the establishment relinquishes control. The unsold portion at year end of consignment shipments in Canada is treated as inventory and not as shipments but all shipments to foreign countries for which the form B13 "Customs Canada Export Entry" has been completed, are treated as shipments.

In those industries where work on principal products extends over a relatively long period, (Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair Industry) the value of production rather than the value of shipments is recorded. There are certain establishments in other industries which also operate on a basis of progress payments. For these establishments, shipments are also adjusted to work put in place on the basis of net change in progress payments over the year.

(b) Shipments of goods of own manufacture

These figures represent shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishments for work done. Included are revenue from repair and custom work, amounts received in payment for work done on materials owned by other establishments and the cost (book value) of any goods shipped on a rental basis.

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of returned goods, discounts, returns, allowances, sales tax and excise taxes and duties, returnable containers and charges for outward transportation by common or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity are collected by means of the Commodity questionnaire. Such shipments together with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

These figures represent the net selling value at establishment (net of discounts, returns, allowances, sales taxes and excise duties and taxes and transportation charges by common or contract carriers) of all products or materials (including products transferred from other establishments of the reporting firm) sold as such in the same condition as purchased or received as transfers. For those industries which ship such goods on a rental basis, the value of shipments represents the book value of these goods. All sales of consignment goods from other countries are included.

(d) Other revenue

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs, alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishment's own employees and for which depreciation accounts are maintained. Included also are any revenues from the sale of electricity and from any operations performed by the establishment's own employees, such as revenue from goods produced or purchased for rental (the book of value of such goods are included as part of shipments of goods of own manufacture or shipments of goods not of own manufacture), servicing revenues, commissions on sales (when not included in value of sales), revenue for company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishment's own products, sale of used materials (excluding sale of used fixed assets) research and development work, etc. As mentioned previously the figures do not include non-operating revenue such as rent, dividends, interest, etc.

INVENTORIES

(a) Manufacturing activities

Values represent the book values of manufacturing inventory owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payments accounts are maintained, the change in these accounts is treated as a net adjustment to shipments. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Goods shipped abroad and held in inventory are included in shipments. Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

(b) Non-manufacturing activities

Figures represent the book value of inventory of goods purchased for resale as such without further processing, owned by the reporting establishments and held at plants and at any warehouses or selling outlets which are treated as extensions of establishments. Other characteristics are the same as in (a) above.

VALUE ADDED

(a) By manufacturing activities

Figures are compiled by deducting the cost of manufacturing materials, supplies, etc. and fuel and electricity consumed from the (value of shipments of goods of own manufacture adjusted for changes in the value of inventories of finished goods and goods in process).

(b) By non-manufacturing activities

The figures are compiled by deducting the cost of goods purchased for resale (adjusted for changes in the value of inventories of goods purchased for resale) and the cost of non-manufacturing materials and supplies used from the value of shipments of goods not of own manufacture, plus other revenue.

(c) By total activities

The figures consist of value added by manufacturing activities plus value added by non-manufacturing activities. This total value added figure may, in some cases, be less than value added by manufacturing activities as a result of expenditures associated with non-manufacturing exceeding revenues from such activities or because of a decrease in inventory of goods not of own manufacture exceeding the mark-up on the sale of such goods. "Value added" is sometimes referred to as net output or net production.

PUBLICATIONS

This publication is prepared annually by the Ontario Statistical Centre of the Economic and Statistical Services Division, Department of Treasury and Economics. In addition to this report, annual statistics are published on other manufacturing industries. Publications listed below can be obtained from the Ontario Statistical Centre, Queen's Park, Toronto, Canada.

Catalogue Number	Industry Title
5-1250	Breakfast Cereal Manufacturers
5-1280	Biscuit Manufacturers
5-1430	Distilleries
5-1450	Breweries
5-1470	Wineries
5-1510	Leaf Tobacco Processors
5-1530	Tobacco Products Manufacturers
5-2130	Cordage and Twine Industry
5-2480	Foundation Garment Industry
5-2491	Fabric Glove Manufacturers
5-2580	Coffin and Casket Industry
5-2720	Asphalt Roofing Manufacturers
5-2731	Folding Cartons and Set-up Boxes
5-2732	Manufacturers of Corrugated Boxes
5-2910	Iron and Steel Mills
5-2920	Steel Pipe and Tube Mills
5-2940	Iron Foundries
5-2980	Metal Rolling, Casting and Extruding, N.E.S.
5-3230	Motor Vehicle Manufacturers
5-3260	Railroad Rolling Stock Industry
5-3651	Petroleum Refining Industry
5-3652	Manufacturers of Lubricating Oils and Greases

